

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/016175 A3

(51) International Patent Classification⁷: **A61F 02/08**

(21) International Application Number:
PCT/US2004/020458

(22) International Filing Date: 25 June 2004 (25.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/483,500 27 June 2003 (27.06.2003) US

(71) Applicant (for all designated States except US): **ADVANCED BIO SURFACES, INC.** [US/US]; 5909 Baker Road, Suite 550, Minnetonka, MN 55345 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FELT, Jeffrey, C.** [US/US]; 4800 Lodge Lane, Greenwood, MN 55331 (US).

GRIFFIN, David [US/US]; 979 37th Place, Vero Beach, FL 32960 (US). **RYDELL, Mark, A.** [US/US]; 516 Turnpike Road, Golden Valley, MN 55416 (US). **BUSCEMI, Paul, J.** [US/US]; 2310 Tamarack Drive, Long Lake, MN 55356 (US).

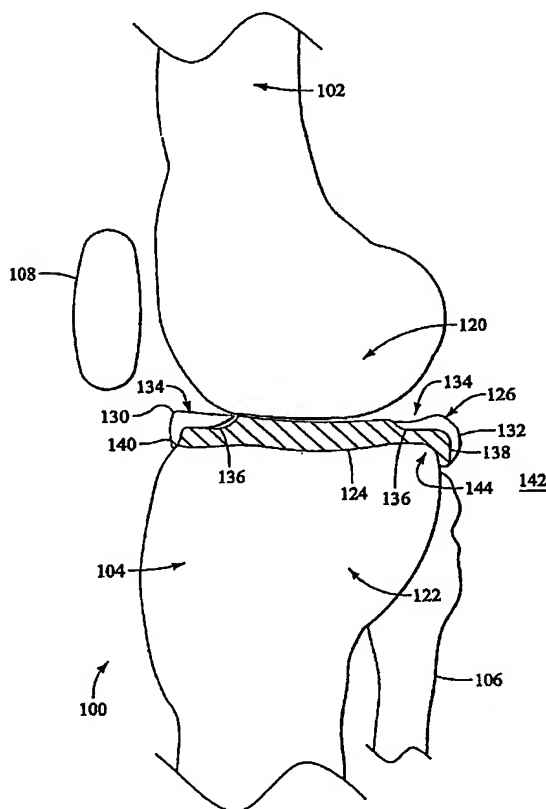
(74) Agents: **GOLDMAN, Phillip, M.** et al.; Fredrikson & Byron, P.A., Suite 4000, 200 South Sixth Street, Minneapolis, MN 55402 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: **MENISCUS PRESERVING IMPLANT METHOD AND APPARATUS**

(57) Abstract: The invention includes an interpositional arthroplasty implant (124) adapted to be retained in position in apposition to a joint surface, at least in part, by surrounding healthy tissue. In some embodiments the implant comprises a knee implant. The implant can include one or more structural features adapted to be fixedly positioned within and/or in apposition to the natural meniscus.





(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) **Date of publication of the international search report:**
12 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.